Chemistry + Elevical alcholy P.T.A. 536,1/13:541,12,012,3:541,123,2/.6 Awlytoslawski W. Tangent and Almost Tungent Isobars Limiting the Formation of Two-, Three- and Your-Component Ascotropes. "O stycznych i prawie stycznych izobarach ograniczających zasleni tworzenia się azeotropów dwu-, trój- i czteroskiadnikowych". Przemysł Chemiczny, No. 7-8, 1050, pp. 411-422. A definition of azeotropic range B_A (B) of agent A forming two component azcotropic systems with a series Bi, B. . . . Bn of homoloss and their isomers has been given. The lowest and the highest bolling representatives of this series from tangent or almost tangent Isobats to the horizontals drawn through bailing point of A and the lowest boiling representative of the series. The probability of the formation of three and four component sys ems (A.C.B.), (A.C.D.P.) depends exclusively upon agent A characterised by the lowest azeotropic range t_A (B) compared with two others t_C (B) and t_D (B). No exception to this rule has been found as yet. The difficulty of separating mixtures of three and four component systems has been stressed out.

Chemistry * Chemical Acchaebs,

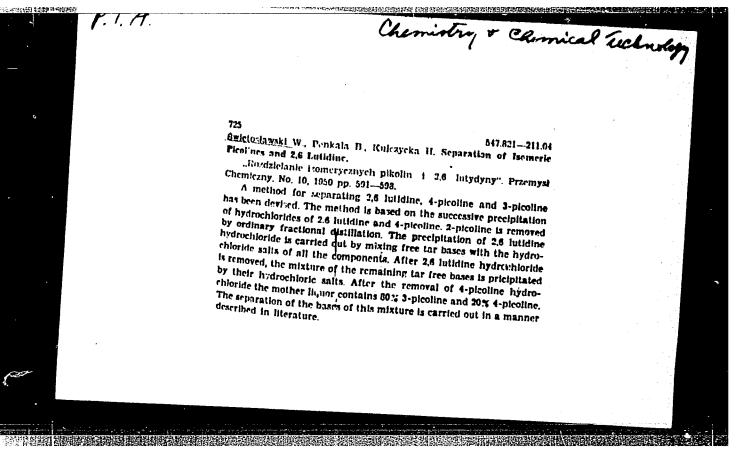
Still 2012 3 211 123 216

Swicksland W. Almost Tangent Zeotrapes and their Influence on
the Formation of Three-and Four-Computent Arcotrapes.

O restroyach prawle sty-mych 1 leb spliwle na tworrente sigarcotrages togl. I extensis landidously. Na

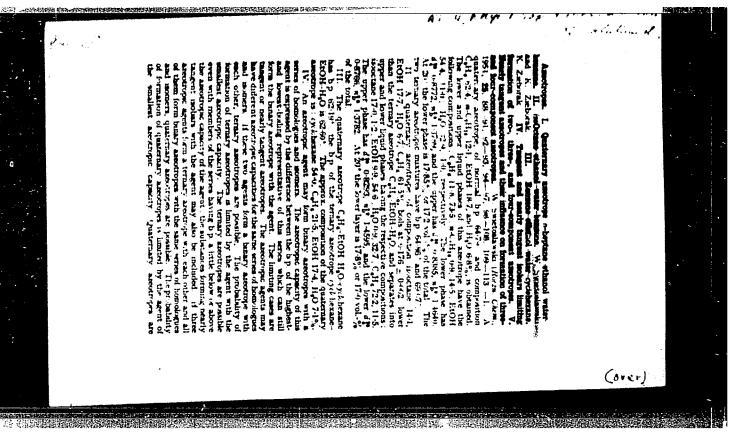
7 S. 1800, pp. 422-423

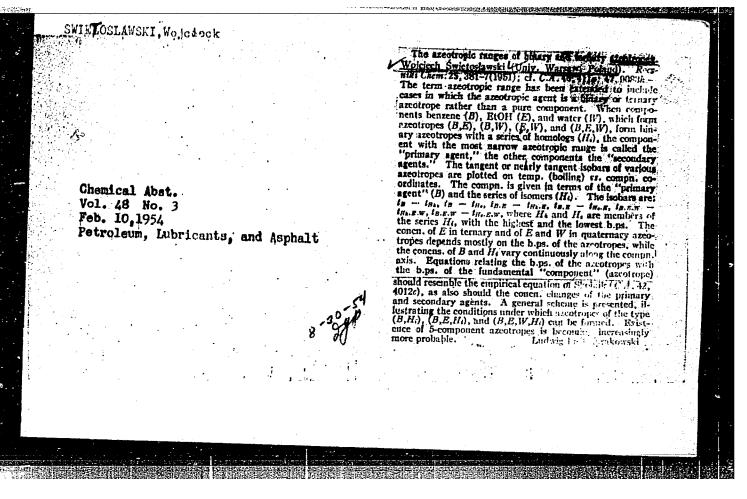
A chase madely has been proved to exist between the formation
of two-three- or four-component. Zeotrapic mixtures with almost
tangent babuta to bert-outlish drawn through the building point of
the accotrage against. Typical examples of nuch stuties at a given.
It is stated that continuous transition exists from almost tangent
azcotrages to almost tangent zeotrages. Difficulty connected with
separating polyzotrapes and polyzocotrages by way of fractional
distillation are pointed out



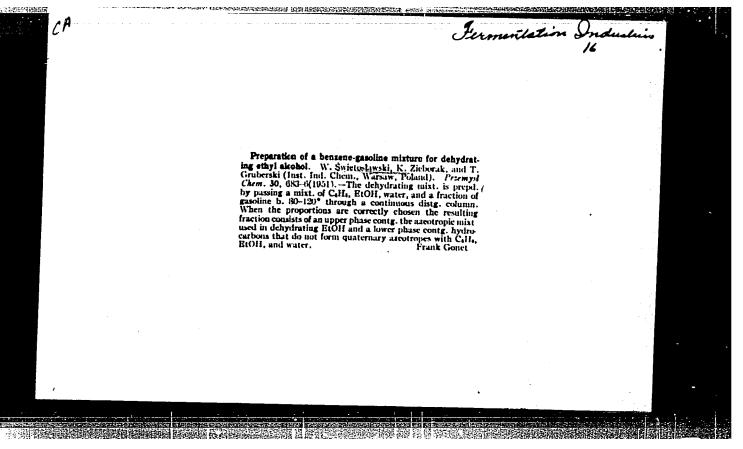
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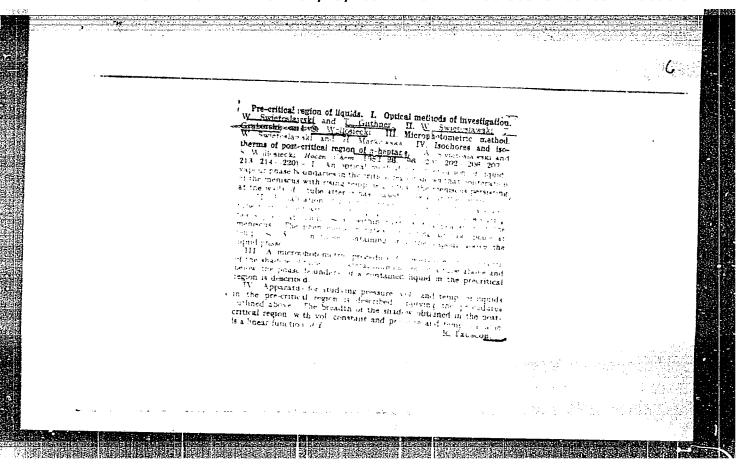
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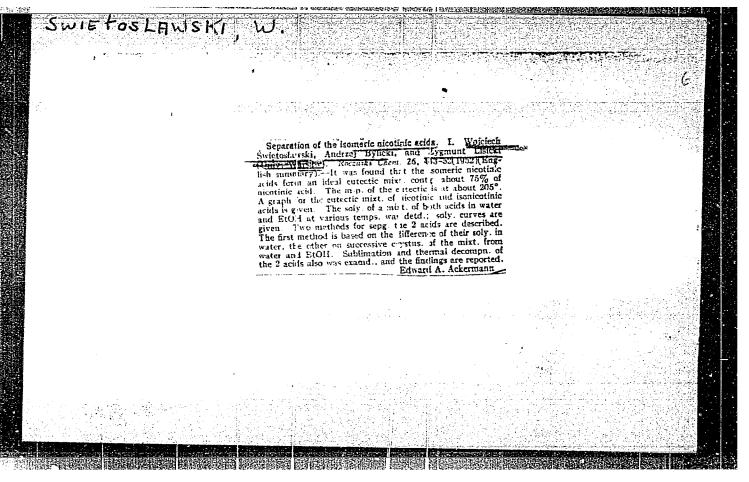


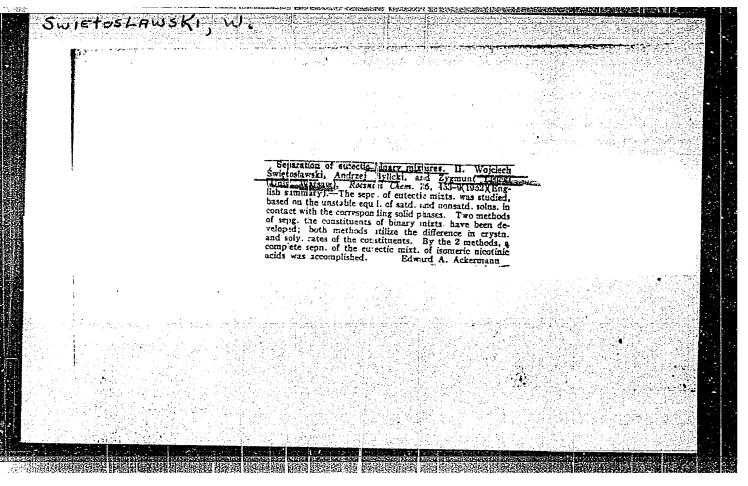


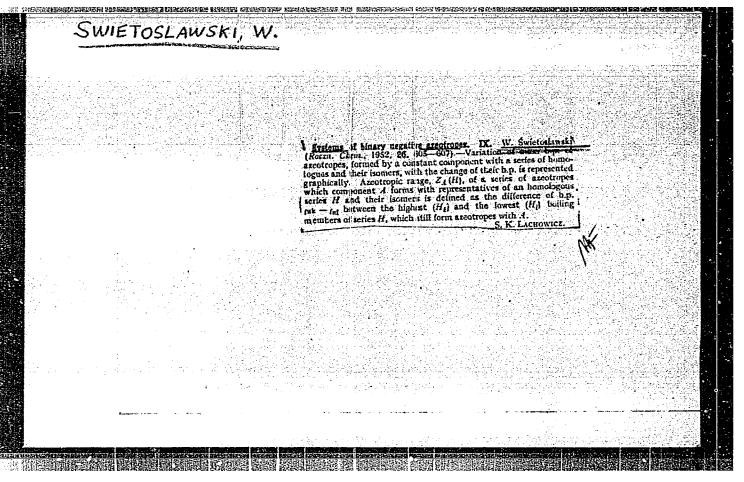
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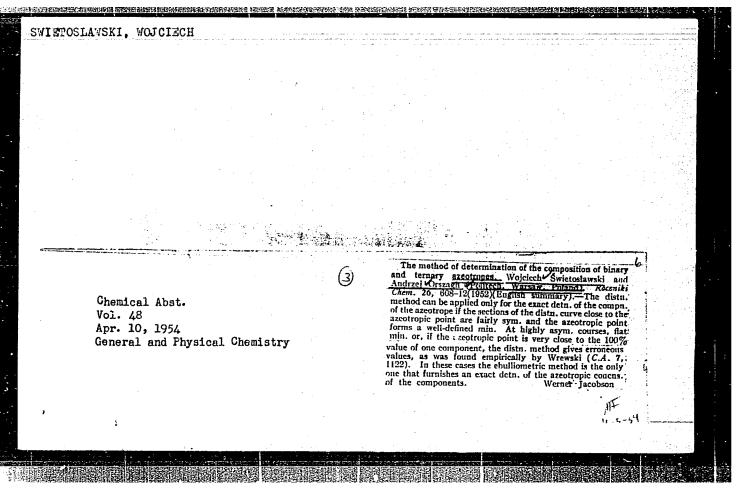


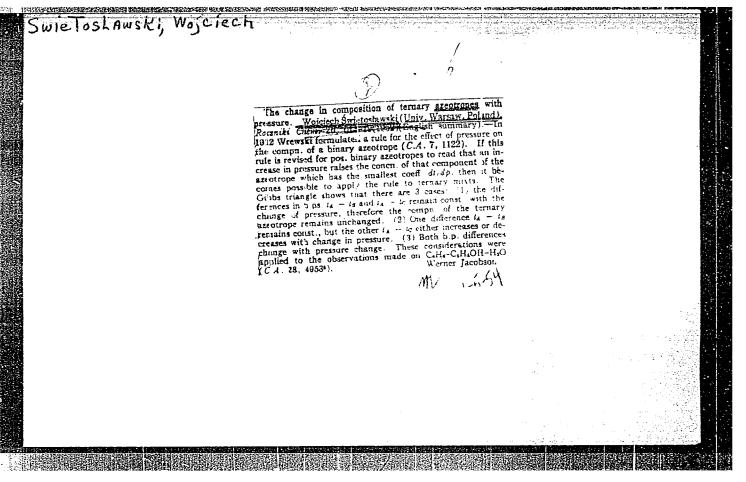






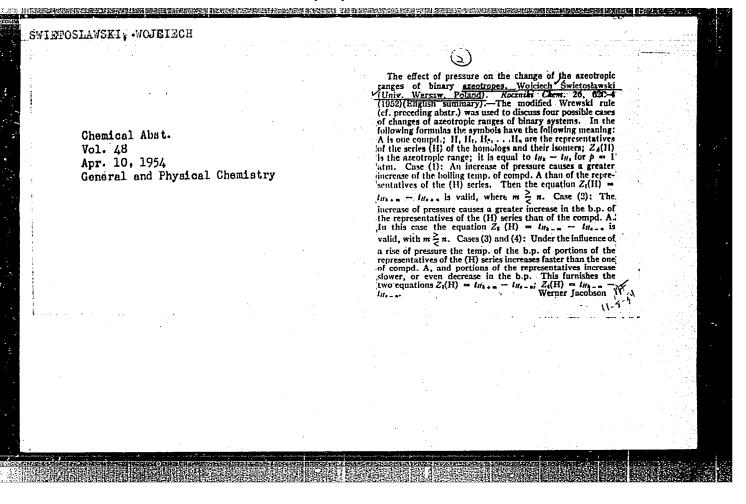


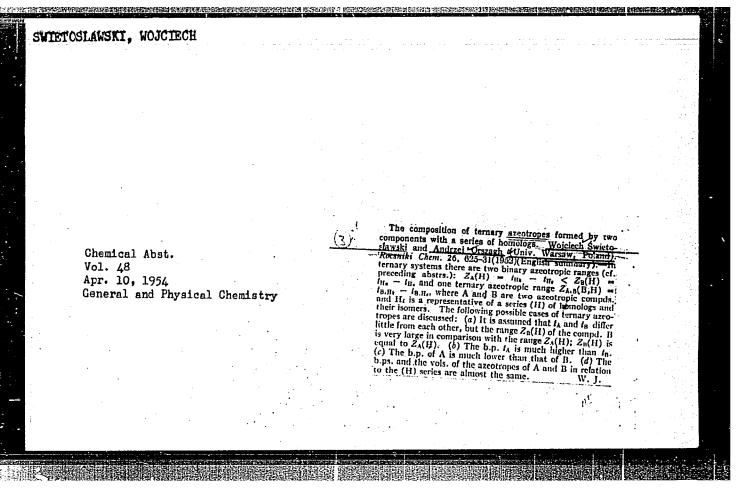


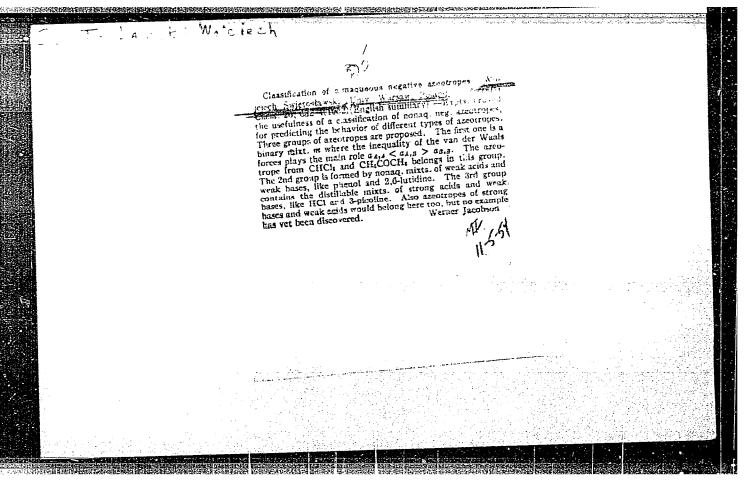


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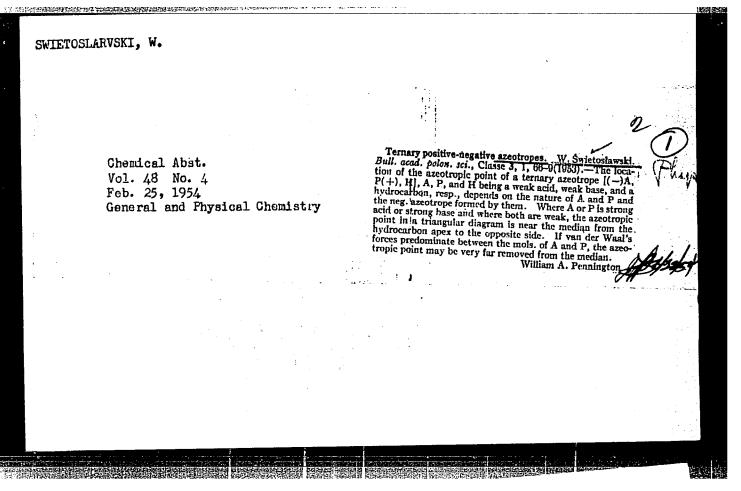
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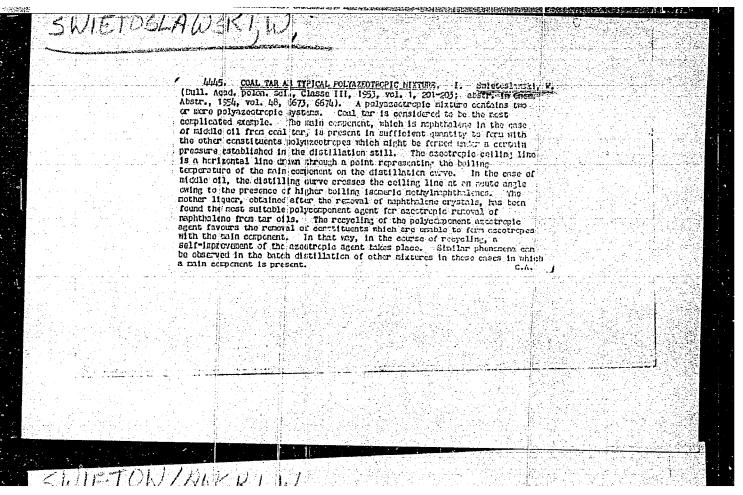


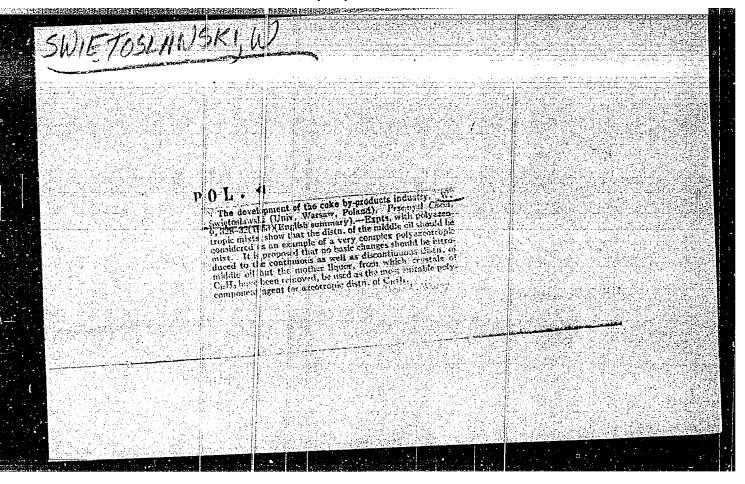


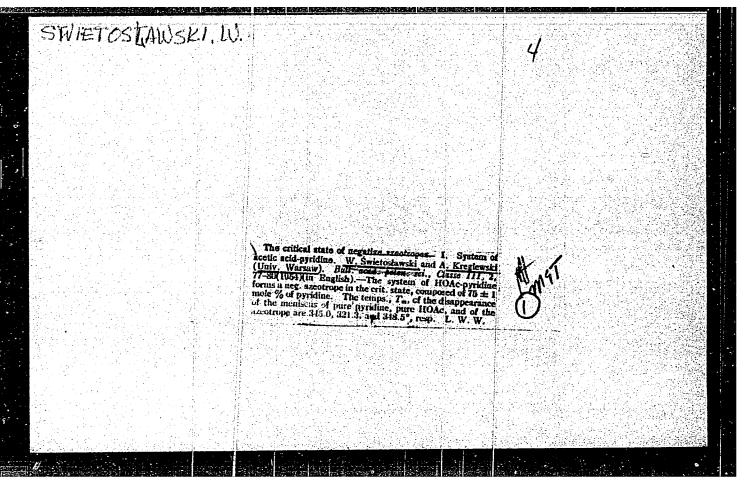
2991. PHYSICAL CHMMISTRY OF COALS AND COMING PROCESSES.
Fuel Abst. Swietoslawski, W. (Warsaw: Panstw. Wydawn. Tech., 1953, 23lpp., 27 zloty; title in Newercheinungen wiss. Lit. Volksdemokr., Apr. 1953, vol. 2,3h7).
Fuels: Sources and Properties

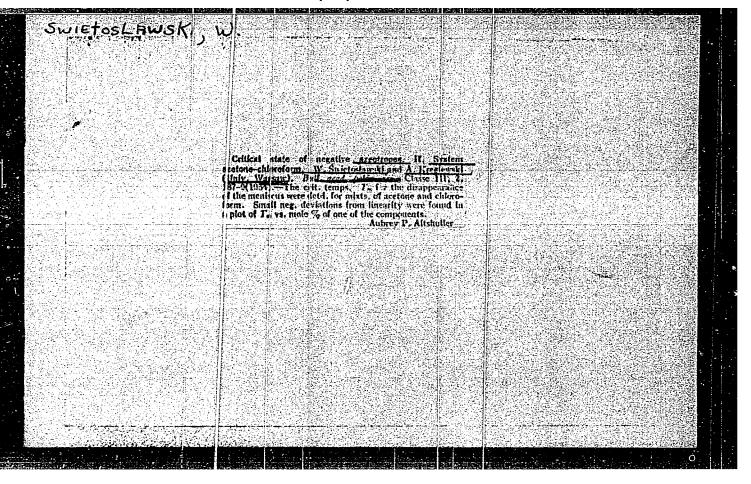


to cause soln. of the nuclei in a few min. Melts produced in foundries, in the ordinary way, are probably nuclei-free; inconlation of such melts with the metal is effective only if performed at a temp, just above the m.p. and just before freezing begins. In the case of pure metals, the inoculator must be placed in the mould. Neither by keeping metals molten for very long periods for by strongly superheating Cu could a fine structure be obtained, as was done by Mitsche in the case of Al (Carnegie Schol, Mem., Iron Steel Inst., 1934, 23, 65; 1936, 25, 41; M.A., 2, 220; 4, 287). M.'s result was probably due to a secondary! phenomenon. More stable nuclei, e.g. TiAl₃ or TiC. are probably present in Al alloyed with Ti or in hypereutectic Al-Si alloys. These phases have a high m.p., and dissolve only slowly. In the case of pure Al, coarsening of the structure ends within an hr. or in a few min. according to the temp. at which the melt is held; in Al-Ti alloys the process apparently continues even after 24 hr. As grain-refiners, only substances producing stable nuclei are satisfactory. Supercooling is possible only if the cooling melt is free from active nuclei, but some melts do not supercool even if free of nuclei. Sn is easily supercooled; Pb and Al did not supercool, regardless of the manner of treating the melt before the final cooling, in the present work. Freezing the melt, in the supercooled state, produces a finer structure than that obtained without supercooling; the grain-refining effect of supercooling reveals itself only in part of the casting. 16 ref.—J. S. G. T.









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SWIETCSLAWSKT, W.

USSR/Physical Chemistry, Thermodynamics, Thermochemistry,

B-8

Equilibriums, Phys-Chem. Anal. Phase-Transition.

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22282.

Author : V. Swietoslawski

Inst : Not given

Title : Polyazeotropic mixtures, containing two or more homologous

compound series.

Orig Pub: Byull. Polskoy A.N. Otd III, 1954, 2, No 10, 493-497

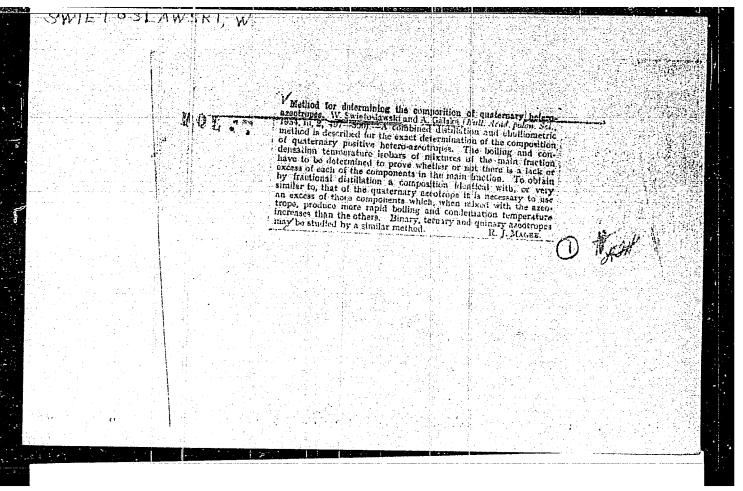
Abstract : The study of complex organic mixtures of coal-tar type, named

polyazeotropic by the author and started earlier (communication I,R.Zh.Khim,1955,44083) is continued. A classification of polyazeotropic mixtures, based on the quantity of homologous series entering in the composition of the given mixture, is offered. Properties of polyazeotropic mixtures, containing 2 series of homologs and their isomers (paraffin and aromatic hydrocarbons) are studied. Some methodical procedures are shown facilitating the study of polyazeotropic mixtures containing several homologous series. Look also R.Zh.Khim.

1954, 90745, 31213, 31470, 1957. 9224.

Card 1/1

-93-



SWIETOSLAWSKI, W.; ROSTAFINSKA, D.; JANEK, W.

"Method of Investigation of Fractions of Pyridine Bases." P. 212. (PRZEMYSL CHEMICZNI, Vol. 10, No. 4, Apr. 1954, Warszawa, Poland)

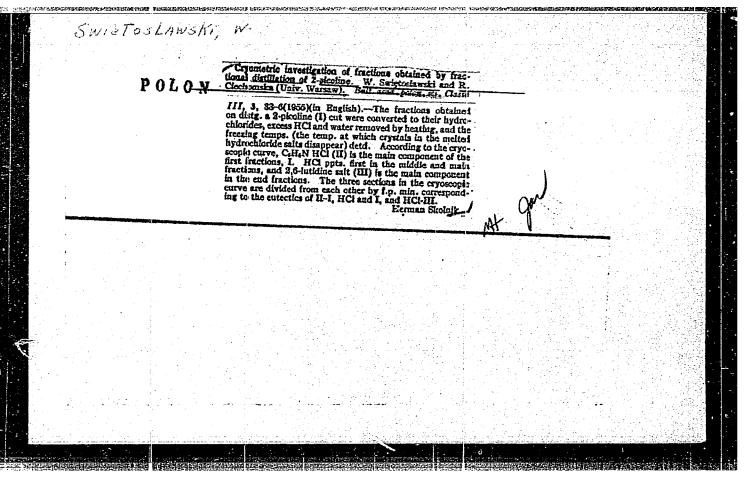
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,

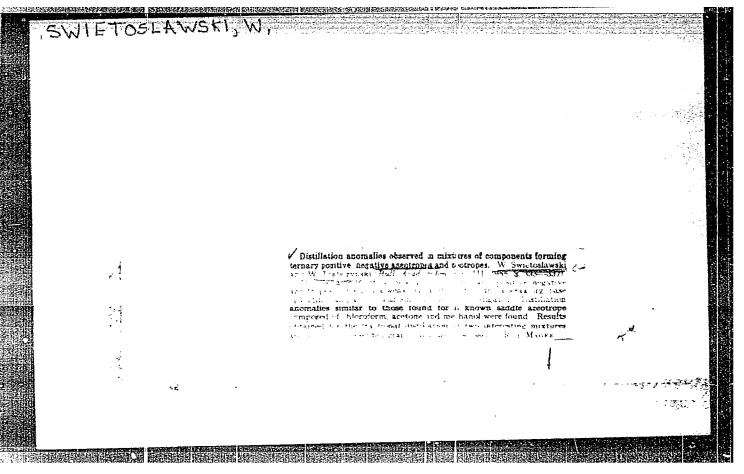
No. 1, Jan. 1955 Uncl.

SMIETOSLAWSKI, Mojeicch

"Basic Problems for the development of the Chemical Industry in Poland,"

Nauka Polska, Vol. III, No. 1, (9), 1955, pp 29-36.





SVENTOSLAVSKIY, V.V

POLAND/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical Analysis. Phase Transitions.

: Referat Zhur - Khimiya, No 3, 1957, 7453 Abs Jour

Sventoslavskiy and Trombehinskiy Author

: Polish Academy of Sciences : Application of the Method of Intersecting Isobars to the Inst Title

Investigation of 3-Component Saddle-Point Azeotropes.

XXII.

: Byul. Pol'sk. AN, 1955, Section 3, Vol 3, No 11, 605-609 Orig Pub

The method of intersecting isobars is proposed for the Abstract

precise determination of the composition and the boiling point temperature of 3-component positive-negative azeotropes. The method combines distillation with ebulliometric measurements and is based on four independent .ebulliometric measurements on the four section of thelbpsiso-

bar. In all these measurements the starting liquid is the

main fraction obtained from the fractional

- 87 -Card 1/2

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5	를 보고 있는 사람들은 보다 하다. 그는 사람들은 사람들이 가장 하는 것이 되었다면 하는 것이 되었다면 하다. 그는 사람들이 가장 생활하다면 생활하다면 생활하다면 보다면 보다는 것이다면 하는데 보다 다른 사람들이 되었다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보	
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	Polysteofropy and polysteotropic injurities. Wennight	
	Swieterlangel (Univ. Warsay). Weddomości Chem. 5.	
	5)1-4 (1995).—The following topics are reviewed: funda-	
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	polyazeotropic mixts. (I), posneg. ternary azentropes not contg. water, methods of investigation of I, self-improvement	
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	tion of anthrucene, carbazole, acenan thene, 2-methyl-11141	
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	Adam Sperzyński \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	eutecties, solid soins, and azcotropes, crit. range of liquids, and thermochem. studies. 28 references. Adam Sporzyński	
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I-14

SWIETOCKAWSKI, W

FOLAND/Chemical Technology - Chemical Products and Their Application. Industrial Organic Synthesis

: Referat Zhur - Khimiya, No 4, 1957, 13061 Abs Jour

Author : Swietockawski W.

: The Problem of Proper Utilization of Organic Raw Materials Title

: Przem chem., 1955, 11, No 10, 539-540 Orig Pub

Abstract Considered are the problems of composite utilization of

the products of synthesis of liquid fuels and of the

processing of coal tar.

Card 1/1

~ 269

SWIETOSIAMS I. W.

Proper utilization of black coal and coal derivatives.

p. 5 (Koks, Smola, Gaz. Vol. 1, no. 1, Jan./Har. 1956. Katowice, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

Satisficialist, W.

Polyageotropy and polyageotropic systems and mixtures. N. 21. (agree). Vol. 1, no. h, Oct/Dec. 1956. Varszaws, Poland)

So: Monthly List of Wast European Accessions (EV.L) IS. Vol. 3, no. 12, Pac. 1957. Uncl.

Swielis LAWSKI, & V.

UCBB/Physical Chemistry, Thermodynamics, Thermochemistry, Equilibriums, Phys-Chem. Anal. Phase-Transition

B-8

Abs Jour: Ref Zhur - Khimiya, No 7, 1957, 22281

Author : V. Swietoslawski, K. Zemborak, I. Stetski.

Inst : Not given

Title : Binary system classification

Orig Pub : Byull. Pálskoy A.N. 1956, Otd 3,4, No 2, 93-95.

Abstract: A classification of bicomponent liquid systems with limited mutual solubility is exposed. Equilibriums in vapor-liquid

and vapor-two liquids systems at big variations of temperatures and pressures are studied. Cases are reviewed when a transition of a heteroazeotrope into a homoazeotrope is observed at a temperature lower than the critical solubility temperature (disappearance of one of the liquid phases takes place under the critical solubility temperature). The necessity of experimental and theoretical studies is indicated for determining conditions of formation of heteroazeotropes only or of gradual transformation of heteroazeotropes into homoazeotropes. The terms - definition is given earlier (V. Swietoslawski Ebullio-

metric measurements, New York, Rheinhold Publ. Corp. 1945).

Card 1/1

-92-

POLAND/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibrium. Physicochemical Analysis.

Phase Transitions.

Ref Zhur - Khimiya, No 9, 1958, 27855 Abs Jour

Sventoslavskiy, V. and Malesinskiy, V. Author

: Polish Academy of Sciences. Inst

: On the Utilization of Reduced Equations Expressing the Title

Properties of Some Series of Positive Binary Azcotro-

pic Systems.

Byull Pol'skoy Akad Nauk, Otdel 3, 4, No 3, 155-160 Orig Pub

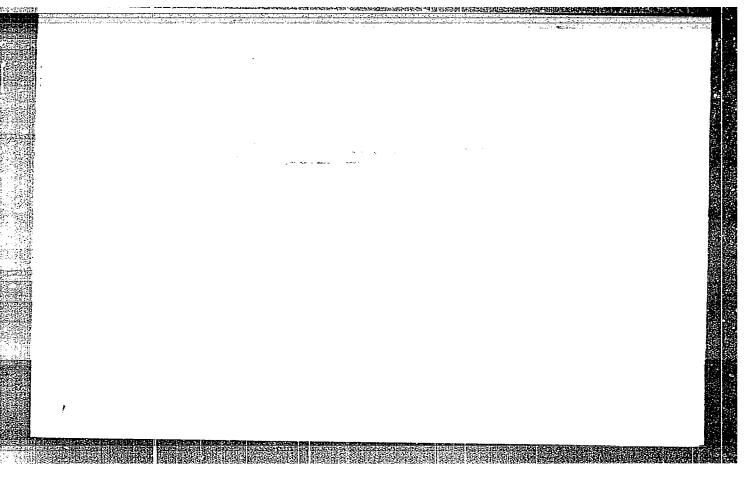
(1956)

: On the basis of previously published work (Roczniki Abstract

Chem, 10, 97 (1930); 25, 98, 109, 361 (1951); RZhKhim, 1957, 7454) the authors have introduced equations con-

taining azeotropic parameters expressing general

Card 1/2



STENTOSLAUBKIY, V.V

POLAND / Physical Chemistry. Thormodynamics. Thormochemistry B-3
Equilibria. Physical-Chemical Analysis. Phase

Transitions.

Abs Jour : Ref Zhur - Khim., No 10, 1958, 31667

nuthor : V. Sventoslavskiy, V. Malosinskiy
Inst : .cademy of Sciences of Poland

Title : Azootropic Depressions as Functions of Series Composition

of Tornary Positive Azootropes.

Orig Pub : Byul. Pol'skoy AN, 1956, otd. 3, 4, No 10, 685-692.

hbstract: Based on the equation derived earlier (RZhKhim, 1957, 76584), an equation connecting the boiling points of series of ternary azoctropes with their composition was derived:

 $T_{LZ}^{(2,30)} - T_{LZ}^{(1_i,2,3)} = Z_{d21}x_{1_i}^2$, where $T_{LZ}^{(2,3)}$ and $T_{LZ}^{(1_i,2,3)}$

Card 1/2

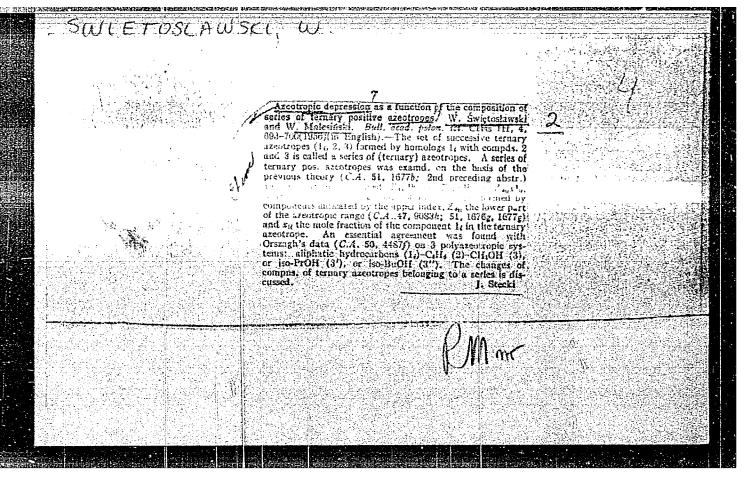
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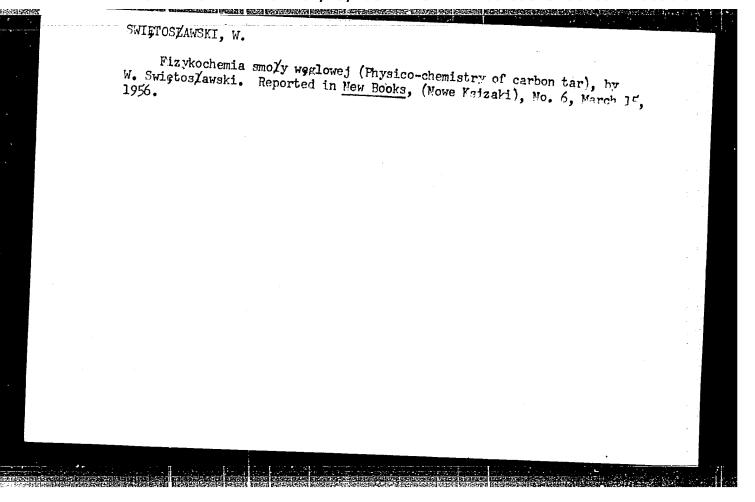
HOLLND / Physical Chemistry. Thermodynamics. Thermochemistry B-8 Equilibria. Physical-Chemical Analysis. Phase Transitions.

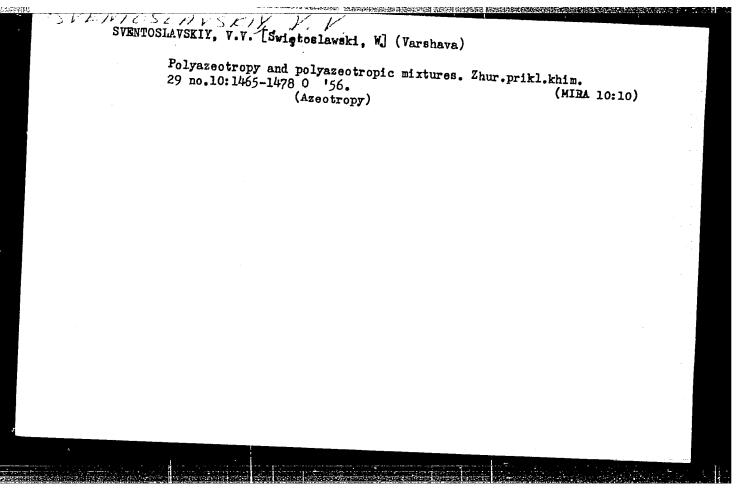
Abs Jour : Ref Zhur - him., No 10, 1958, 31667

are the boiling points of binary (2,3) and ternary (1,2,3) azcotropes formed of representatives 1_i of saturated hydrocarbons of a homologous series; $\mathbb{Z}_{d_{21}}$ is the bottom part of the azcotropic border of the main component 2 with reference to the series 1_i ; x_1 is the molar part of 1_i in the azcotrope $(1_i,2,3)$. The equation was checked with experimental data for systems consisting of benzene, methanol (isobutanol, isopropanol) and a series of aliphatic hydrocarbons.

Card 2/2







SWIETOSLA:	·				
of the Pol	slawski – <u>Fizykoch</u> Lish Chemical Socie viewed in <u>Roczniki</u>	ty "Chemistry fo	or AUI". State	Vol 5 of the Scientific P	publication ublishers, 195
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Swietuskawski, W.

POLAND/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,

Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3769.

Author: W. Swietoslawski, J. Stecki.
Inst: Academy of Sciences of Poland.

Title : Series of Binary Mixtures with Limited Mutual Solubility.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl.3, 5, No 2, 155-159, XIV.

Abstract: Schemes of zeotrope and azeotrope formation in binary systems

(A, $\rm H_{1}$) of the aseotropic agent A and a representative of a homologous series H in case of limited mutual solubility of

components are given.

Card : 1/1

-16-

Swietoslawski,

POLAND/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,

Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3774.

Author : I: W. Swietoslawski, K. Zieborak, W. Brzostowski. II: K.

Ziehorak, W. Brzestowski.

: Academy of Sciences of Poland.

: Vapor-Liquid Equilibria. I. An Apparatus for Determining the Inst Title

Vapor-Liquid Phase Equilibria. II. The n-Decame-Acetic Acid -

2,6 Lutidine System.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 3, 305-308, XXV.

Abstract: I. an apparatus for simultaneous boiling temperature measurement and liquid and vapor composition determination is described. The apparatus has been checked with the water-methanol system and

works faultlessly in all cases when vapor is in equilibrium with

only one liquid phase.

: 1/2 Card

-20-

POLAND/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,
Physical-Chemical Analysis, Phase Transitions.

B-6

的数据,就是在本种的数据,我们是一个企业,这个人的企业,是一个人的企业,是一个人的企业,但是一个人的企业,但是一个人的企业,但是一个人的企业,但是一个人的企业,

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3774.

II. The equilibrium liquid-vapor in the n-decane - acetic acid - 2,6-lutidine system and in binary systems composing it was studied. The composition was determined by chemical analysis and refraction indices of the mixtures. The system is characterized by a limited mutual solubility of the components at 25°. All the mixtures are single phase ones at the boiling temperature. The positions of the crest line and of the point answering the saddle azeotrope are determined.

Card: 2/2

-21-

POLAND/Thermodynamics. Thermochemistry. Equilibria. Physicochemical Analysis. Phase Transitions.

Abs Jour: Fee Zhur-Khin., No 15, 1958, 49538.

Author : Swietoslawski W.

Inst : Polish Academy of Sciences.

Title : Peculiar Polyazeotropic Mixtures.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 12,

1141-1143, XCIII.

Abstract: Consideration of properties of two polyazeotropic mixtures: liquid obtained by Fischer-Tropsch synthesis, and coal tar obtained at low temperature. The 1st of these mixtures contains 2 series of homologues and their isomers -- paraffins and olefins. Coal tar obtained at low temperature contains

5 series of homologues and their isomers, which

: 1/2 Card

17

SVENTOSLAVSKIW, V.V. [Świgtosławski, Wojciech]; BANASHEK, Ye.I., kand.khim.
nauk [translator]; ZAKHAR'YEVSKIY, V.A., red.; BELEVA, M.A.,
tekhn.red.

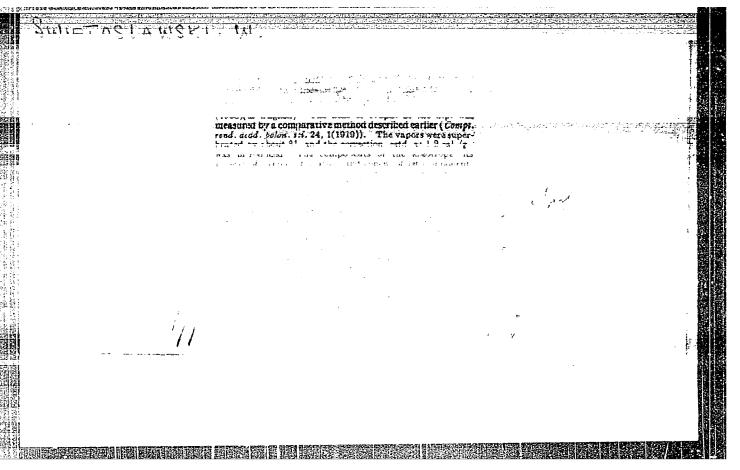
[Physical chemistry of coal tar] Fizicheskaia khimiia kamennougol'noi smoly. Translated from the Polish. Moskva, Izd-vo inostr.lit-ry, 1958. 370 p. (MIRA 12:2) (Coal tar)

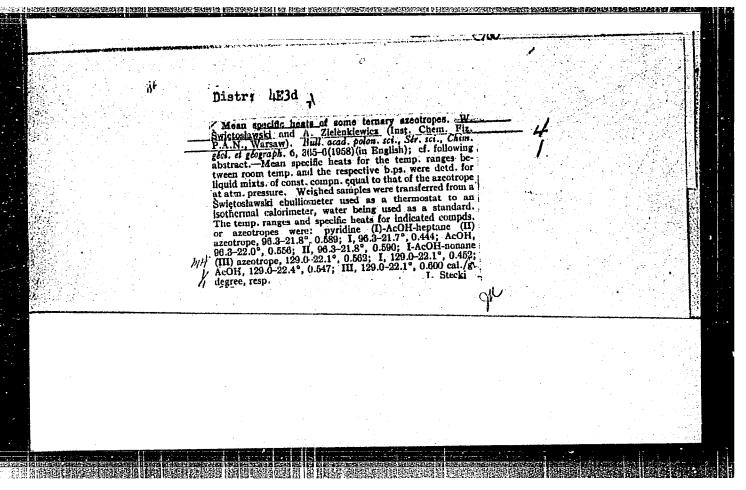
SWIETOSLAWSKI, W.

"Reminiscences on Wladyslaw Natanson"

p. 209 (Kosmos. Seria B; Przyroda Nieozywiona, Journal on natural sciences with the exception of biology issued by the Copernicus Society of Polish Naturalists, Vol. 4, no. 3, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.





POLAND / Physical Chemistry--Thermodynamics. B-8
Thermochemistry. Equilibrium. Physicochemical analysis. Phase Transitions.

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 37826

Author
Inst : Swietoslawski, W.; and Zielenkiewicz, A.
Pollsh Academy of Sciences - Inst. Chem Physics.
Title : Mean Specific Heats of Binary Positive
Azeotropes.

Orig Pub : Bull Acad Polon Sci, Ser Sci Chim, Geol et Geograph, 6, No. 6, 367-369, XXX (1958) (in English with a Russian summary)

Abstract: The authors have determined the mean specific heats of the following binary positive azeotropes; toluene-isopropyl alcohol, toluene-isobutyl alcohol, m-xylene-isobutyl alcohol, m-xylene-isobutyl alcohol, p-xylene-isoamyl alcohol,

Card 1/3

20.

COUNTRY : Foland CATEGORY ABS. JCUR, : RZKhim., No. 16 1959. No. 58412 ROFTUA : Swietoslawski, W. and Lisicki, Z. IMST. : Folish Academy of Sciences TITLU : A Method for the Investigation of Polyazeotropic Mixtures of the Type Found in Coal Tar ORIG. PUB. : Full Acad Polon Sci Ser Sci Chim, Geol et Geograph 6, No 7, 453-457, XXXVIII (1958) ASSTRACT : The outhors describe a method for the investigation of polyazeotropic mixtures, based on the repeated distillation and analysis of fractions of the starting mixture and of the starting [?] mixture from which one or two groups of nomologs have been removed or to which one or more components have been added [sic]. By way of an example, the authors have applied a method to the investigation of coal tar acid, which is a complex polyazeotropic mixture of phenols, pyridine bases, paraffins, and naphthalene. V. Zagrebel'naya CARD: 1/1

SWIETOSLAWSKI, W.

Kazimierz Smolenski; personal reminiscences. p. 645

WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne) Wrocław. Vol. 12, no. 11, Nov. 1958 Poland/

Monthly List of East European Accessions Index (EEAI), IC, Vol. 8, no. 6, June 1959 Uncl.

SWILTOSLAWSKI, W.

SCIENCE

periodicals: WIAIOMOSCI CHEMICZNE Vol. 12, no. 12, Dec. 1958 SWIETOSLAWSKI, W. Organic applied physical chemistry. p. 757.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
Eay 1959, Unclass.

SVENTOSIAVSKIY, V.V. [Swietoslawski, V.W.], (Varshava).

Comparative physicochemical measurements, Usp. khim. 27 no.10:
1198-1208 0 '58. (MIRA 11:12)

(Physical measurements)

AUTHOR:

Sventoslavski, V. V., Professor,

30-58-4-5/44

Active Member of the Polish Academy of Sciences

TITLE:

Azeotropes and Eutecticts and Their Importance in Applied Physical Chemistry (Azeotropy i evtektiki i ikh znacheniye

v prikladnoy fizicheskoy khimii)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958, 28 Nr 4, pp. 37 - 41 (USSR)

ABSTRACT:

A. F. Kapustinskiy, Corresponding Member of the Academy of Sciences of the USSR, in the preface gives a short characterisation of the scientist Sventoslavskiy as well as a review of his works. He calls him leading in the whole world in the field of thermal chemistry of organic compounds.

The specialists for azeotropy had no interest in the rawmaterial tar which is gained by the coking of hard-coal.

By this it follows that the typical azeotropes which are
produced of this technically important organic raw-material
in the tables of azeotropic mixtures by M. Lek, L. Khorsli,
respectively, are not included. This was the reason why the
author with his team in Warsay since 1949 found it necessa-

Card 1/3

Azeotropes and Eutecticts and Their Importance in Applied 30-58-4-5/44 Physical Chemistry

ry to investigate up till then unknown azeotropes which are produced in the destillation of hard-coal, the richest organic raw material of the country. By the example of the system benzene-benzine, benzene-benzine-ethanol, and benzine-ethanol-water K. Zemborak (Ref. 4 and 5) investigated all phenomena which served the author for the classification of positive azeotropes. At that moment (1950) the way for elaborating the theory about polyazeotropic mixtures in its basic ideas was free. The ebulliometric methodology of making comparative measurements made the works in the field of the azeotropy much easier (Ref. 6). Nevertheless it was necessary to widen the research plan so that it was not only limited within the field of theoretical and experimental works about azeotropy, polyazeotropy and polyazeotropical mixtures but also included researches which were combined with the thermochemical and cryometric measurements, as well as with the research of the phase-equilibria (especially of polyeutectic mixtures). In connection with cryometric researches the theory about so called ideal eutectics developed the common theory which Malesinskiy evolved. A. Bylitskiy and S. Lisitskiy proposed 4 methods for the separation of the eutectic

Card 2/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001654220006-5"

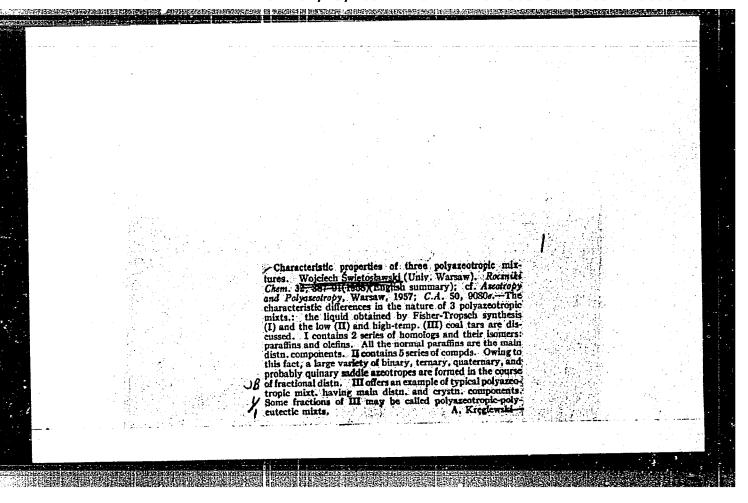
Azeotropos and Eutoctics and Their Importance in Applied Physical Chemistry

30-53-4-5/44

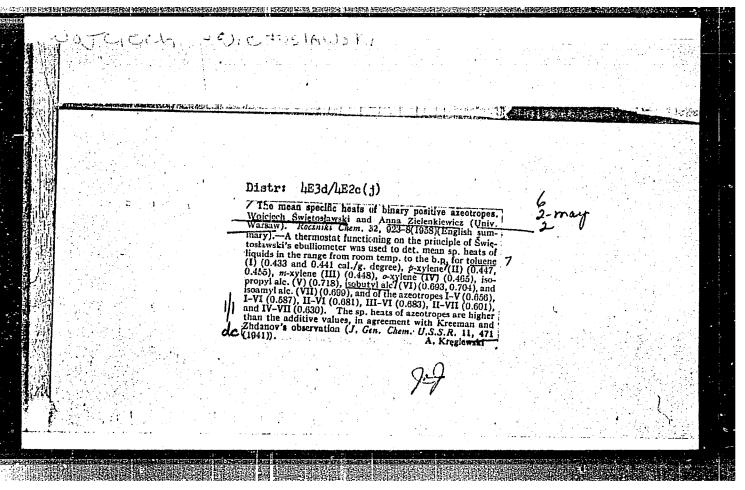
mixture of isomeric nicotinic acids which were taken over by industry. There was also solved the problem of the research methodology of poly-component-mixtures which often form poly-eutectic systems. In this field large researches by aid of 2 methods were made which are described in detail. M. Vuyts-itskaya investigated a spatial model of the three-component-system and V. Vuytsitskiy the absorption and ionic exchange. In May 1957 the Physical-Chemical Institute of the Polish Academy of Sciences called a scientific conference about phaseequilibria in which delegates of the USSR (A. F. Kapustinskiy, G. B. Ravich and V. K. Semenchenko) and of the peoples' democracies took part. There are 12 references, 1 of which is Soviet

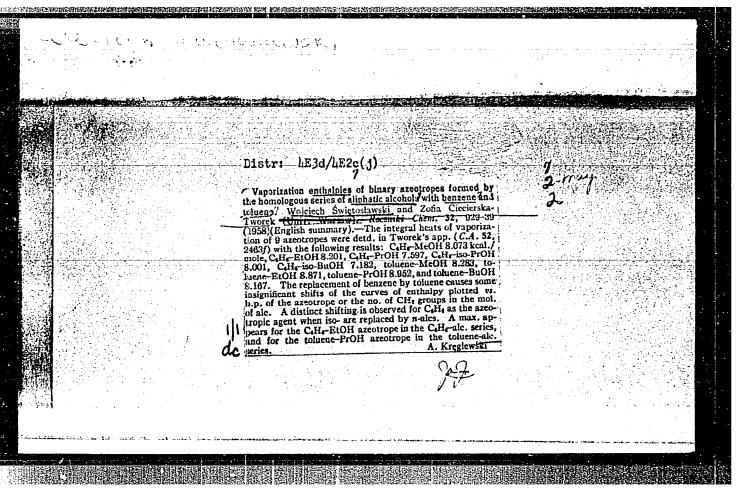
1. Thermochemistry—Applications

Card 3/3



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	1 이 1 이 하는 것 같아 되는 사람이 있다. 그런 그런 그런 그런 그런 그를 하는 것 같아. 			
	Distr: 4E2c(j)/4E3d			
	Vaporization enthalpy of a homologous series of binary			
	azeotropes. Wojciech Świetosłuwski and Anna Zielen- kiewicz (Univ. Warssw). Rocaniki Chem. 32, 913-22	_ 5		
	(1958) Buglish summary).—The vaporization enthalpy of binary gos, azeotropes (A _i , H _i) composed of aromatic hydro-	2-11-21		
_	carbony as azeotropic agents A (benzene, toluene, p-xylene)! with primary aliphatic ales, as series of homology (H _i) and			
	of pyridine with n-paraffinic hydrocarbons were detd. If the vaporization enthalpy of A _i is higher than those of H _i ,			
	the gram-vaporization enthalpies of azeotropes increase with the normal b.p. of H _i , whereas if that of A _i is lower than			
	those of H ₁ , a reverse phenomenon takes place. The heat			
	b.p. of the homolog. The curves of mol. vaporization en- tropies of the azeotropes plotted es, their compn. show a max., the position of which depends on the vaporization			
	entropy of A1. A. Kreglewski			
	α_{i}			
	7-7			
	이라는 11 1일 경기를 보고 있는 것이 되었다.			
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H-22 COUNTRY Polland CATEGORY

AB3. JOUR.: RZKhim., Bo. 21 1959, Ro.

AUTHOR : Swietoslawski, W. 1.750 : Not given

The Basic Physicochemical Properties of Liquid TITLE

Organic Raw Materials

ORIG. PUB.: Przemysl Chem, 37, No 4, 239-245 (1958)

The author reviews the work done at the Physical POARTORA

Chemistry Laboratory of the University of Warsaw over a period of 10 yrs in the field of the investigation of the physicochemical properties of liquid organic raw materials, particularly of coal tar resins and their fractions. The experimental results indicate that the majority of liquid organic raw materials consist of polyazeotropic mixtures containing 2 and more series of

76043

homologs and their isomers, and that the majority

CARD: 1/2

SWIETOSLAWSKI, WOJCIECH.

Physikalische Chemie des Steinkohlenteers.

Ubers. von Mikolaj Lenartowski. Koln, Poland Nik. Jos. Hoffman-Verlag, 1959. 315p.

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, No 1, Jan. 1960 Uncl.

SWIETOSLAWSKI, W.

Terminology and symboles of known and new kinds of homoazeotropes. I. Bul Ac Pol chim 7 no.1:1-6 *59. (EEAI 9:7)

1. Institute of Physical Chemistry, Polish Academy of Sciences. (Azeotropes)

COUNTRY : Poland B-8

ABS. JOUR. : AZKhim., io. 22 1950, io. 77721

APTROR : TYT. :
TIFLE :

CRIS. FUB. :

ASSIPACT : for multicomponent systems are insufficiently studied. For Communication I see Assiract 77720.

V. Kogan

CARD: 3/3

INUUMIRU ABS. JOUR.: RZKhim., No. 22 1959, Ro. 77722 AUTHOR IMST. TITLE ORIG. PUB. : ABSTRACT : additional new types of azectropes, [(-)A, P(+)H, Az], [(+)J, B(-)C], and [(-)C, P(+)H], have been investigated to a limited extent as yet; however, the possibility of increasing the number of azeotropes of these types is noted (Az stands for an acid and J, for a halogen-substituted hydrocerbon) For Communication II see Abstract 77721. V. Kogan CARD: 2/2 COUNTRY Poland B−8

SWIETOSLAWSKI, W.; ZIELENKIEWICZ, W.

On a new labyrinth flow calorimeter. Bul Ac Pol chim 7 no.2:105-105 *59. (EEAI 9:7)

Institute of Physical Chemistry, Polish Academy of Sciences.
 Presented by W.Swietoslawski.
 (Calorimeters and calorimetry)

SWIETOSLAWSKI, W.; ZIELENKIEWICZ, W.

Thermostats used with the labirynth flow calorimeter. Bul Ac Pol chim 7 no.2:107-110 '9. (EEAI 9:7)

(Calorimeters and calorimetry)

(Thermostat)

SEIETOSLAWSKI, W.; OLSZEWSKI, K.

A new type of ebulliometer for determining the boiling temperature of two liquid phase mixtures. Bul Ac Pol chim 7 no.8:531-533 '59.

(EEAI 10:4)

1. Institute of Physical Chemistry, Polish Academy of Sciences.
Presented by W.Swietoslawski.

(Ebullioscopes) (Bioling points) (Liquids) (Mixtures)

P/002/60/000/004/003/003

Experience and work of the ...

above-mentioned institutions include: 1) thermochemistry, 2) microcalorimetry, 3) azeo- and poly-azeotropy, 4) cryometry, 5) critical state of substances and their azeotropes, 6) liquid-vapor equilibria, 7) separation and purification of substances, 8) thermodynamics of azeotropes and eutectics. Apart from this, physical chemistry of coal tar was carefully studied, aiming for better output of its major components, naphthalene, pyridine and quinoline bases, methylnaphthalene, carbazole, anthracene etc. The progress of this work was such that the Polish edition of the "Physical Chemistry of Coal Tar" was published in 1956, the Russion translation of it in 1958, and the German one in 1959. Azeotropy: The main task of specialists since 1950 was the investigation of 3- and 4-component azeotropes. Apart from the already mentioned Docent Zieborak, important results in this field were achieved by Doctor A. Gaska-Krayewska, Master D. Wyrzykowska-Stankiewicz, Master M. Szczepanikowa, W. Trąbczyński and W. and B. Malesiński. For azeotrope investigations the ebulliometers proved to be irreplaceable. Important cryoscopic investigations were carried out by Master T. Plebański on behalf of the International Union of Pure and Applied Chemistry. This institution asked for investigations to be carried out concerning the accuracy of estimation of substance purity by cryoscopic method. Eight samples for this work were obtained from the National Bureau of Standards in Washington. Thermochemistry and microcalorimetry: Doctor

Card 3/6

P/002/60/000/004/003/003 A221/A126

Experience and work of the ...

W. Wózcicki carried out basic investigations on ionites and sorbents and Master Mrs. M. K. Wóycicka investigated the mixing heat of three-component systems. Master A. Zielenkiewicz investigated condensation heat of individual liquids and twoor three-component azeotropes and improved the apparatus for making calorimetric measurements. Master W. Zielenkiewicz designed a complicated thermostat for a microcalorimeter. The instrument is designed for investigation of small thermal processes, lasting sometimes for 20 days. The thermostat is so effective, that within 14 days the temperature in it did not vary more than ±0.001°C. Determination of liquid-vapor equilibria was initiated by Docent K. Zieborak and determinations of the coefficient of positive-azeotrope boiling temperature changes, are carried out by Master J. Stadnicki. Thermodynamics of azeotropic and eutectic systems was the subject of Doctor W. Malesinski's theoretical work, confirmed by experimental observations, carried out by Docent A. Bylicki. Doctor J. Stecki published series of theoretical articles dealing with two- and three-component hetero azeo rcpes. A Bylicki and Z. Lisicki worked out a method of separating the eutectic mixture of two izomeric nicotinic acids. Publications: Since 1951, the Warsaw University, Department of Physical Chemistry has published over 300 scientific capers in Polish and foreign periodicals. Relations between Polish and foreign

Card 4/6

Experience and work of the...

P/002/60/000/004/003/003 A221/A126

scientists are very vivid. Before WW II, contacts with Westernscientists and institutions were maintained, extended after the war to USSR and other socialist countries. There is a frequent mutual exchange of scientists. In 1957, three delegates of the USSR were present at the conference dealing with phase equilibria; they were: A. F. Kapushinskyi, Member of the AS USSR, G. B. Ravich and V. K. Syemyenchenko. On another occasion, Professor of the Leningrad University A. W. Storonkin, visited Polished Universities for a whole month. Cooperation with the industry was initiated in connection with investigations of azeotropes appearing in coal tar. Very helpful in this line was the Director of the Coke Plant "Hajduki", Master of Engineering M. Wnek. In 1958 - 1960 many conferences took place in which participated: Master of Engineering S. Niewiadomski, leader of the Samodzielny Wydział Węglopochodnych Zjednoczenia Przemysłu Syntezy Chemicznej (Autonomous Department of Coal Derivatives of the Association of Chemical Synthesis Industry) in Gliwice, Master of Engineering J. Growacki, Director of "Blachownia" and Master of Engineering A. Sladek from the "Hajduki" plant. With backing of the Minister of Chemical Industry, Master of Engineering Antoni Radliński, Viceminister Master of Engineering A. Kowalski and Master of Engineering K. Lajdler, Director of the Technical Department in this Ministry, ten pilot installations for investigation of coal derivatives will be built. The export value of these products is

Card 5/6

The responsibility of scientific directors. Review Pol Academy 5 no.3/4:91-106 J1-D '60.

(Science)

SWIETOSLAWSKI, Wojciech

Duties of leaders of scientific teams. Nauka polska 8 no.3:127-145 JI-S '60.

1. Czlonek rzeczywisty Polskiej Akademii Nauk, Warszawa.

P/016/60/014/005/001/001 B103/B207

AUTHOR:

Professor, Doctor Marceli Struszyński. In memory of his decease

TITLE:

Wiadomości chemiczne, v. 14, no. 5: (155), 1960, 267-272

TEXT: The author describes the scientific activity of Marceli Struszyński (M. S.), Professor, Doctor, who died on September 1, 1959. M. S. was the PERIODICAL: most outstanding analytical chemist of the pre- and post-war period in Poland He is the author of a number of works in the field of the organic and inorganic (quantitative and qualitative) analysis, as well as of technical analysis. His publications did not only serve as text-books for students, but also as abundant hand-books for the everyday use of analytical experts. Most of the analyses described, personally checked by M. S. This extensive treatment is without equivalent in Polish scientific publications. The fact that M. S. refused the payment for his first text-book in favor of the academic youth gives a characteristic picture of his attitude toward his students. The author restricts himself more or less to years 1911-1925, since J. Minczewski, Professor has only recently described M. Struszyński's

card 1/4

P/016/60/014/005/001/001 B103/B207

Professor, Doctor Marceli ...

activity in an article published by the periodical "Chemia Analityczna". The author collaborated with M. S. in 1911 when they studied the direct preparation of diazonium salts from aromatic amines by the action of nitrosyl chloride in anhydrous medium. M. Struszyński's analyses determined the course of reaction which, at that time, had not been clearly defined. In Moscow, M. S. covered the following positions: Head of the Division for Analyses and Expert Opinion on Legal-, Costums, and Commercial Matters in the Laboratory of Blyumental'; expert at the local customs office; between 1903 and 1908 customs inspector at the Moscow Stock Committee, above all for the expert opinion on textiles and textile raw materials. At the end of 1918, M. S. started his activity as analytical chemist at the Instytut Przemys /u Fermentacyjnego (Institute of the Fermentation Industry) in Warsaw and in 1920-1928 he held the position of an adjunct at the Katedra Przemys Lu Organicznego i Cukrownictwa Politechniki Warszawskiej (Department of the Organic Industry and Sugar Industry of the Warsaw Polytechnic Institute) under Kazimierz Smoleński, Professor. Here, M. S. directed independently the Pracownia Analizy Technicznej (Laboratory of Technical Analysis) as well as practical courses. Little later, the Rada Wydzia u Chemicznego (Council of the Chemical Division) entrusted him with the lectures on ana-Card 2/4

Professor, Doctor Marceli ...

P/016/60/014/005/001/001 B103/B207

lytical chemistry. In 1928, M. S. was appointed Head of the Wydzia! Chemiczny (Chemical Division) and head of the Centralne Laboratorium Monopolu Spirytusowego (Central Laboratory of the Monopoly on Spirit) as well as the Laboratorium Monopolu Tytoniowego (Laboratory of the Monopoly on Tobacco) and in 1931-1933, after these institutions had hade been dissolved, he continued to work for the two monopolies. At the same time M. S. advised the Departament Cell (Customs Section) and the Rada Towaroznawcza (Council for Commercial Goods) at the Ministerstwo Skarbu (Ministry of Finance) in Warsaw. Between 1933 and 1938, M. S. headed the Dzia! Analityczny Instytutu Przeciwgazowego Ministerstwa Obrony Narodowej (Analytical Section of the Gas Defense Institute of the Ministry of National Defense). Here, the author and M. S. were both members of the Komitet naukowy (Scientific Cocouncil). M. S. had to fulfill difficult and dangerous tasks, on which no literature exists, since they were secret; all data were destroyed in 1939. After the German invasion, M. S. taught in Polish schools of chemistry since all universities were closed. After World War II, M. S. took over in 1947 the direction of the Zak/ad Analityczny (Department of Analytical Chemistry) at the GY6wny Instytut Chemii Przemys Yowej (Institute of Industrial Chemistry), later at the Instytut Chemii Ogólnej (Institute of General Card 3/4

Professor, Doctor Marceli ...

P/016/60/014/005/001/001 B103/B207

Chemistry), Ministerstwa Przemys μ Chemicznego (Ministry of the Chemical ν Industry) where he remained until his death. There is 1 figure.

SUBMITTED: February 6, 1960

Card 4/4

Professor Doctor Tadeusz ...

P/016/60/014/008/001/001 B103/B203

Hilary Lachs as a physicochemist. Tadeusz Miłobędzki taught analytical chemistry, and conducted exercises in qualitative and quantitative analysis. He published the book: "School of Qualitative Analysis". The atmosphere prevailing there can only be understood by one who later, in occupied Warsaw (1940-1944), attended the illegal Polish schools. The above-mentioned Society was reorganized to the Wolna Wszechnica Polska (Free Polish University) in Warsaw in 1920. W. Swiętos≵awski emphasizes that Tadeusz Mikobędzki devoted his life not only to science but also to social work fighting for the existence of Polish culture against czarism. He sacrificed the possibility of his own quiet research work to these aims. The author refers to a letter by Tadeusz Milobedzki that had been written in 1949 but was handed to the author only after his death (1959) according to his request. Together with Ludwik Szperl and Kazimierz Sławiński, then assistants of the University and of the Politechnicum (Polytechnic Institute) in Warsaw, Tadeusz Miłobędzki devoted his scarce leisure time to tuition at Polish schools and at the Uniwersytet Ludowy (People's University), and issued publications in special periodicals, the encyclopedia, and in popular periodicals. The three men co-operated in the Sekcja Chemiczna (Chemical Section), first at the Department Card 2/5

Professor Doctor Tadeusz...

P/016/60/014/008/001/00; B103/B203

"Popierania Handlu i Przemysłu" (Promotion of Commerce and Industry), later at the "Stowarzyszenie Techników" (Society of Technicians). They delivered reports at the "Muzeum Przemysłu i Rolnictwa" (Museum of Industry and Agriculture) and in the country (Pszczelin Farmers' School). Older chemists (Znatowicz, Boguski, Leppert, and Strassburger) were too short of time for such activity. The leaders of the school strike against Russianization of schools in Poland decided that teachers should not leave their posts. Tadeusz Miłobędzki was one of the signatories of the declaration which had been demanded by a Polish university (other signatories were Mikołaj Tołwiński and K. Sławiński). Before World War II, Tadeusz Miłobędzki started the publication of a series of monographs and books, "Chemia współczesna" (Modern Chemistry). Andrzej Górski stresses Tadeusz Miłobędzki's ability of expressing his thoughts, opinions, and feelings in a thoroughgoing and suggestive form. Due to his extensive social obligations, he found it difficult to do continuous and quiet research work. In spite of it, he never interrupted his experiments. Only after World War I, Tadeusz Miłobędzki was appointed head of the Department of Chemistry of the Szkoła Główna Gospodarstwa Wiejskiego (Main School of Agriculture) in Warsaw, and stayed there for four years, Card 3/5

Professor Doctor Tadeusz.,.

P/016/60/014/008/001/001 B103/B203

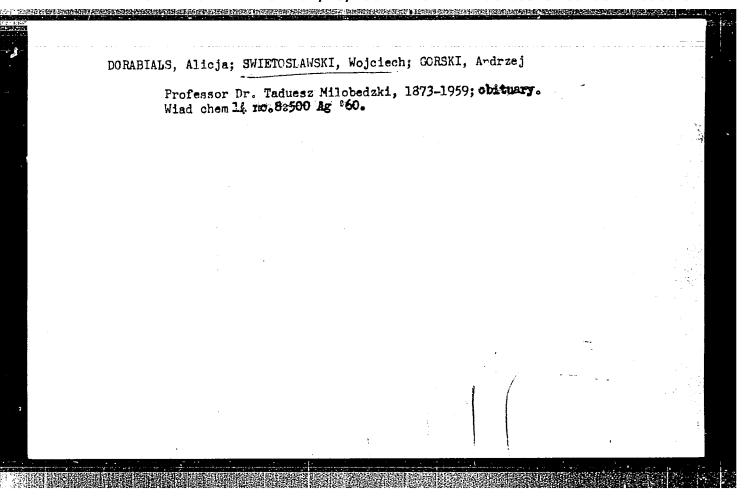
at the same time as a rector. In 1922, he took charge of the Department of Inorganic Chemistry at Poznań University. In 1929, he returned to Warsaw to conduct a similar department at the Polytechnic Institute. His institute burned down in World War II. In occupied Warsaw, Tadeusz Milobedzki, together with part of his students, continued lessons illegally, and prepared the resumption of work after the war. Experimental research work had to be interrupted in the meantime. Tadeusz Miłobędzki. was at Cracow at the end of the war, returned to Warsaw in 1946, gathered his surviving co-workers, and devoted the last years of his life to the reconstruction of his department. There, he resumed his research work. Thanks to his gifts as a scientist and teacher, Tadeusz Miłcbędzki created a "school" not only of his closest co-workers but also among his numerous students who learned from his textbooks. His main interest dealt with classification and analogy in chemistry. Tadeusz Miłobędzki's opinions formed the basis of modern Polish chemical classification and nomenclature of chemical compounds (established with the assistance of Professor Edward Józefowicz). He published many papers on phosphorus compounds. A survey of publications of Tadeusz Mikobedzki and his students is given. There are 1 figure and 91 references: 86 Soviet-bloc Card 4/5

Professor Doctor Tadeusz...

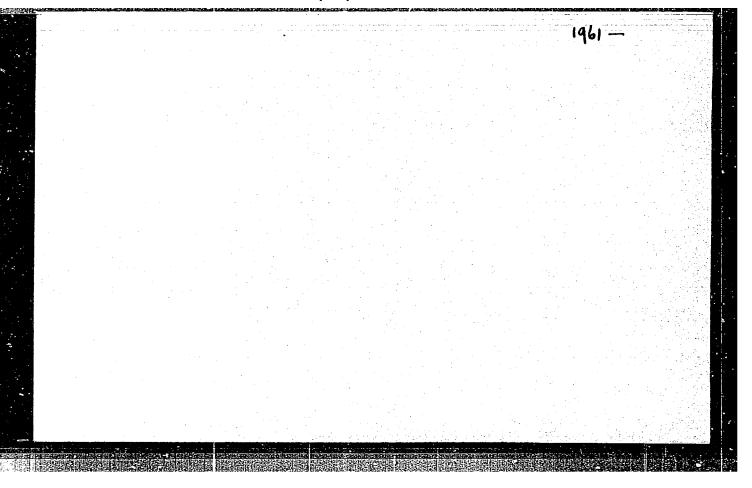
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1. Member of the Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw (Director::Professor Michal Smialowski) The address of the Institute:Warsaw, Nowy Smiat 72, Palac Staszica.

(Polish Academy of Sciences) (Poland-Chemistry, Physical and theoretical) (Poland-Research) (Poland-Raw materials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001654220006-5"

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Mutual solubilities of pyridine bases in aqueous solutions of electrolytes. I.Mutual solubilities in the systems: pyridine-sodium hydroxide water and 2,6-lutidine-sodium hydroxide-water. Bul chim PAN 9 no.1:7-10 161. (EEAI 10:9/10)

1. Institute of General Chemistry, Warsaw. Presented by W. Swietoslawski.

(Pyridine) (Solutions) (Electrolytes) (Systems(Chemistry)) (Solubility) (Sodium) (Hydroxides) (Lutidine)

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1. Czlonek rzeczywisty Polskiej Akademii Nauk, Warszawa.

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Some remarks on examination methods. Review Pol Academy 7 no.3: 108 J1-S 162.

1. Member of the Polish Academy of Sciences, Warsaw.

5/076/62/036/009/010/011 B101/B102

AUTHOR:

Swietoslawski, W. W. (Warsaw)

TITLE:

Exact measurements of the freezing point of chemically pure

benzene

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PERIODICAL: Shurnal fizicheskoy khimii, v. 36, no. 9, 1962, 2087 - 2089

TEXT: The determination of the freezing point of benzene preparations at the Bureau of Standards, Washington, with a degree of purity of 99.99% is reported. The results have been published by the International Union of Pure and Applied Chemistry, Commission on Physico-Chemical Data and Standards, Cooperative Determination of Purity by Thermal Methods, Report of the Organic Committee, July 14, 1961. Using the author's dilatometric cryometer, the maximum error from extrapolation of the crystallization point and melting point was 0.0003 C for 100% benzene. There are 4 figures The English-language reference is: W. Swietoslawski, Azeotropy and Polyazeotropy.

ASSOCIATION: Polish Academy of Sciences

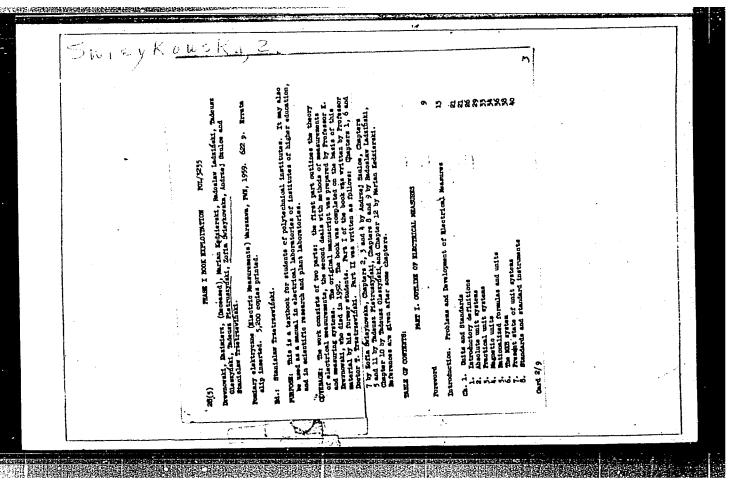
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(Warsaw)

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1. Katedra Miernictwa Elektrycznego, Politechnika, Warszawa.

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1. I Klinika Chorob Wewnetrznych AM, Lodz i Zaklad Historii Medycyny AM, Lodz.
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prof. dr T. Pawlikowski. (DIABETES MELLITUS case reports) (ADREMAL CORTEX dis) (HYPERTRICHOSIS case reports)		
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Polski tygod. lek. 17 no.22;885-887 28 My !62.

1. Z I Klintki Chorob Wewnetrznych AM w Lodzi; kierownik: prof. dr
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